

vii

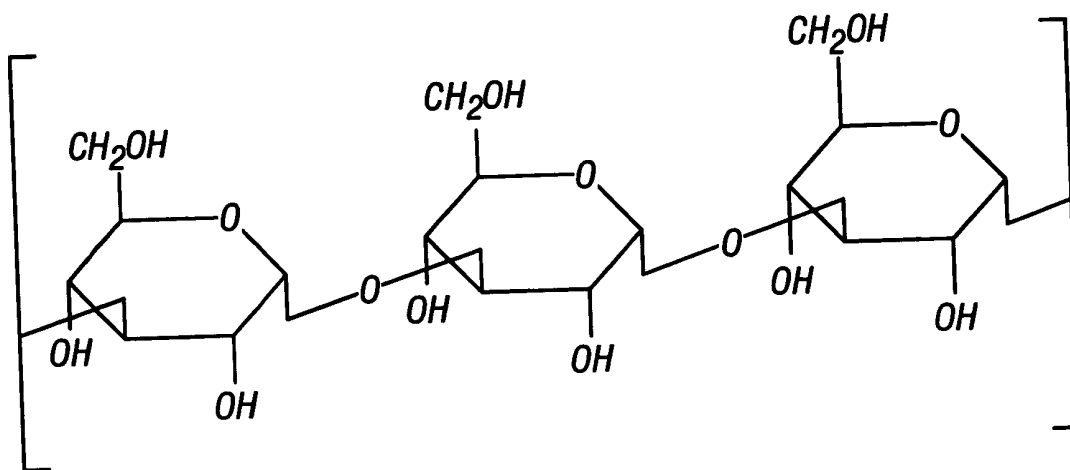


FIG. 1

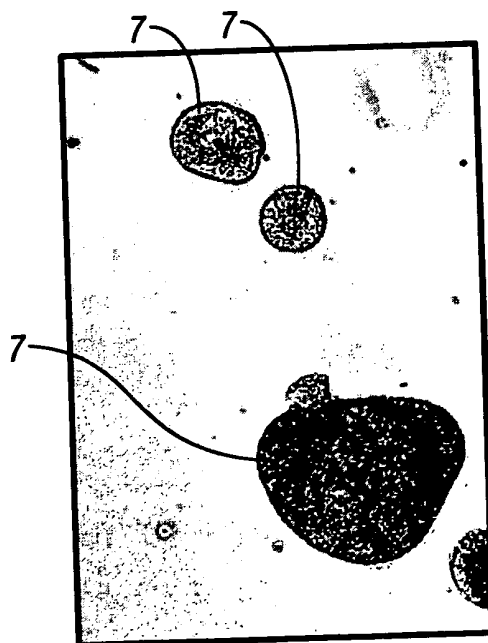


FIG. 2

2/11

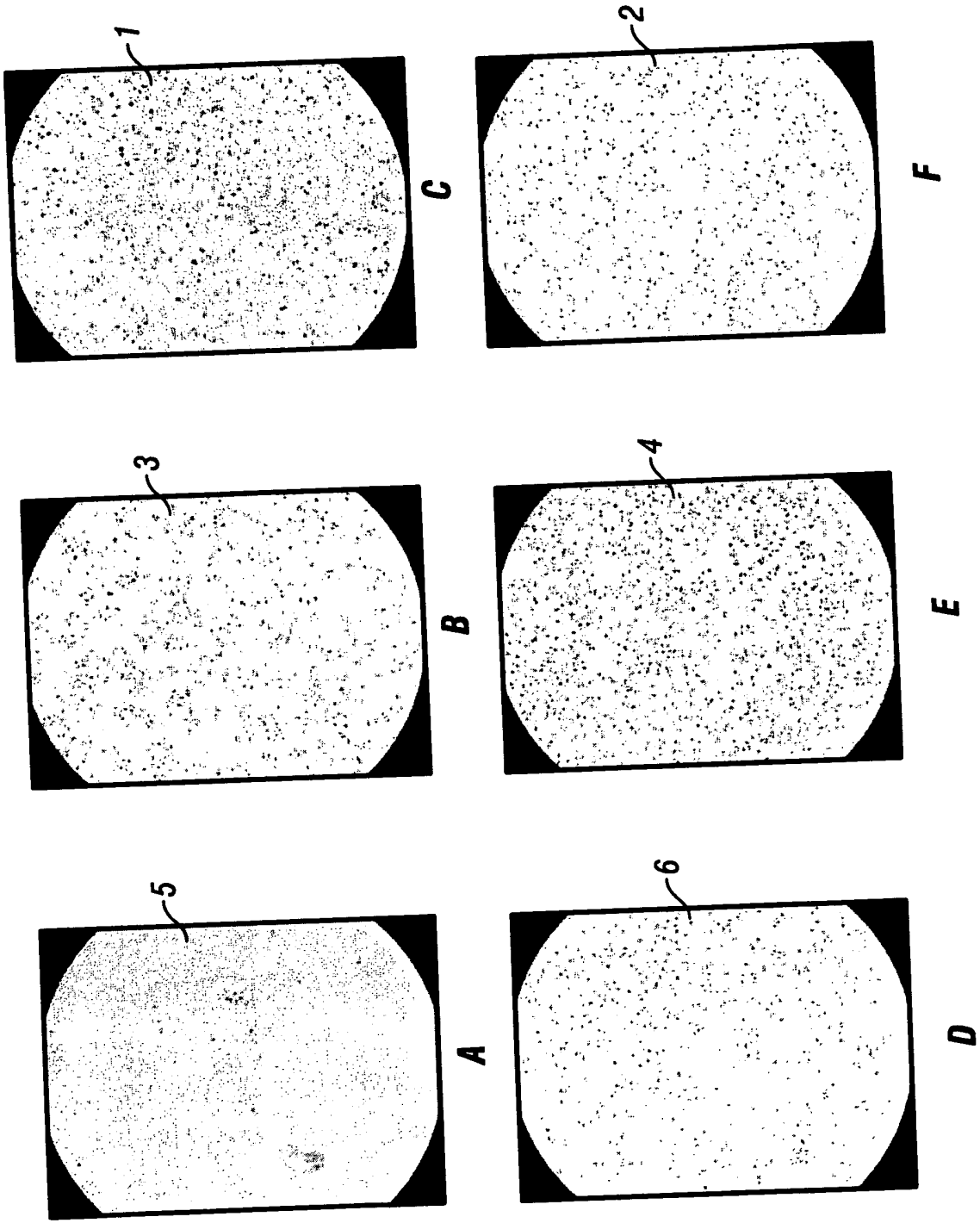
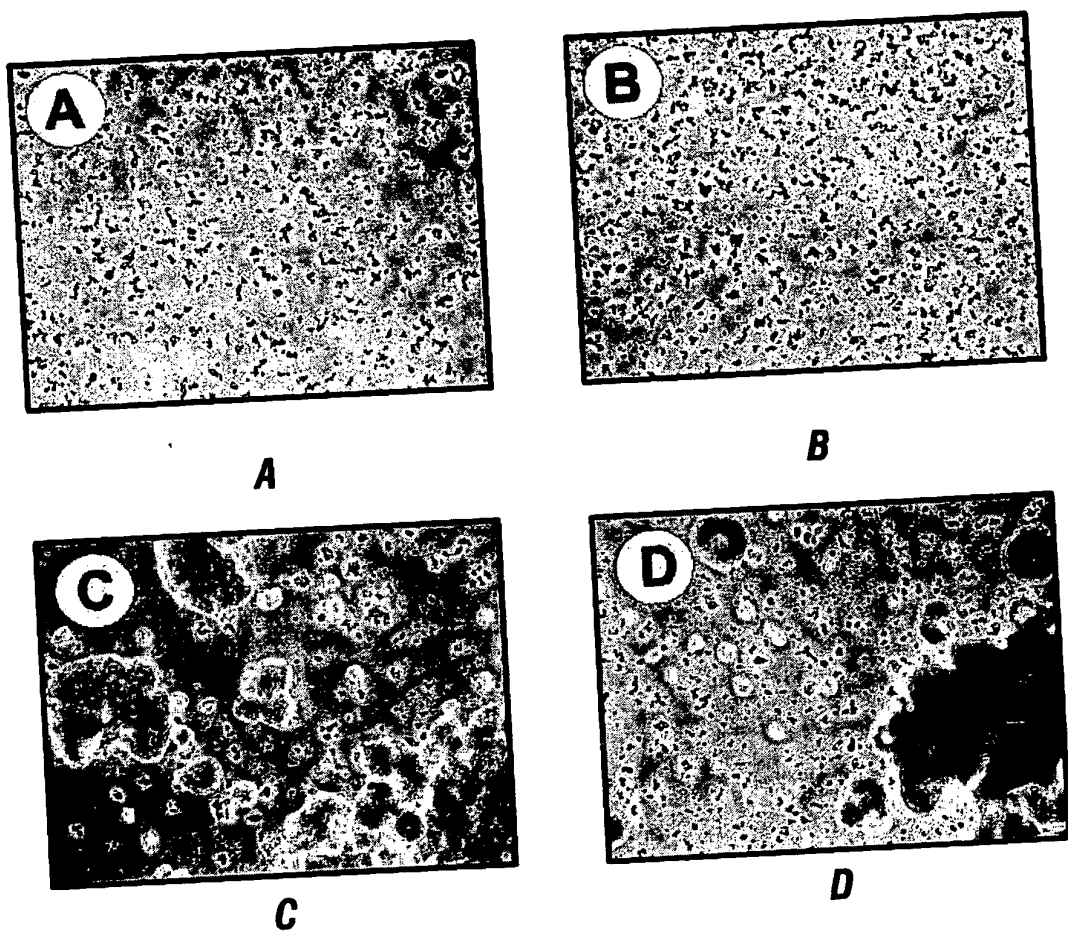


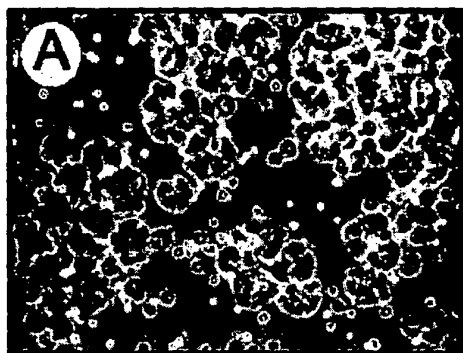
FIG. 3A

3/11

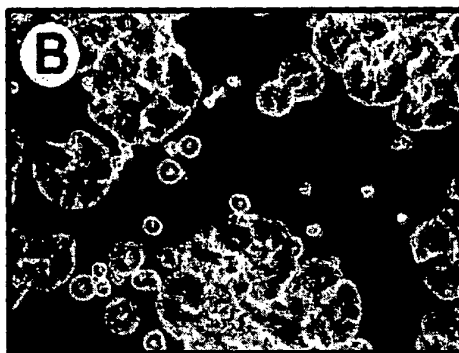


**FIG. 3B**

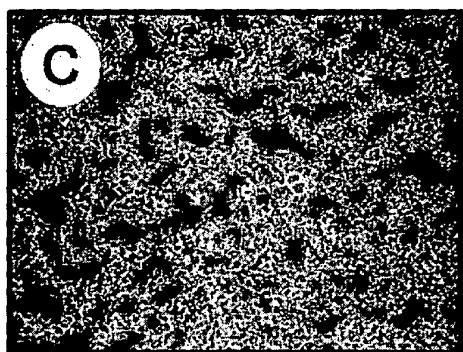
4/11



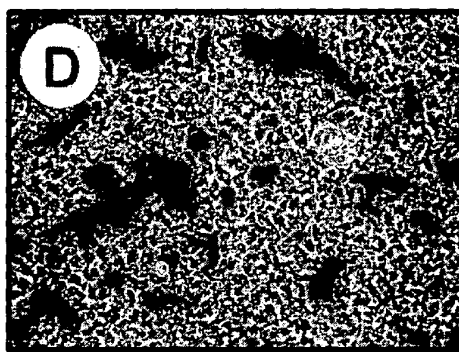
*A*



*B*



*C*



*D*

**FIG. 3C**

5/11

	<i>LPS</i> <i>n=54</i>	<i>Starting</i> <i>Glucan</i> <i>n=55</i>	<i>Sonicated</i> <i>Glucan</i> <i>n=56</i>	<i>Media</i> <i>n=50</i>
<i>Average # bio-particles per cell</i>	1.75	2.92	3.00	3.04
<i># Cells ingesting bio-particles</i>	24	23	31	15
<i># Cells without bio-particles</i>	30	32	25	35
<i>% Phagocytosis</i>	44.44%	41.82%	55.36%	30.00%

**FIG. 4**

	<i>LPS</i> <i>(50 µg/ml)</i>	<i>Glucan Globules</i> <i>(100 µg/ml)</i>	<i>Sonicated Globules</i> <i>(100 µg/ml)</i>	<i>Media</i>
<i>TNF-α (pg/ml)</i>	573	153	144	0
<i>NO (µM)</i>	>1000	275	600	0

**FIG. 5**

6/11

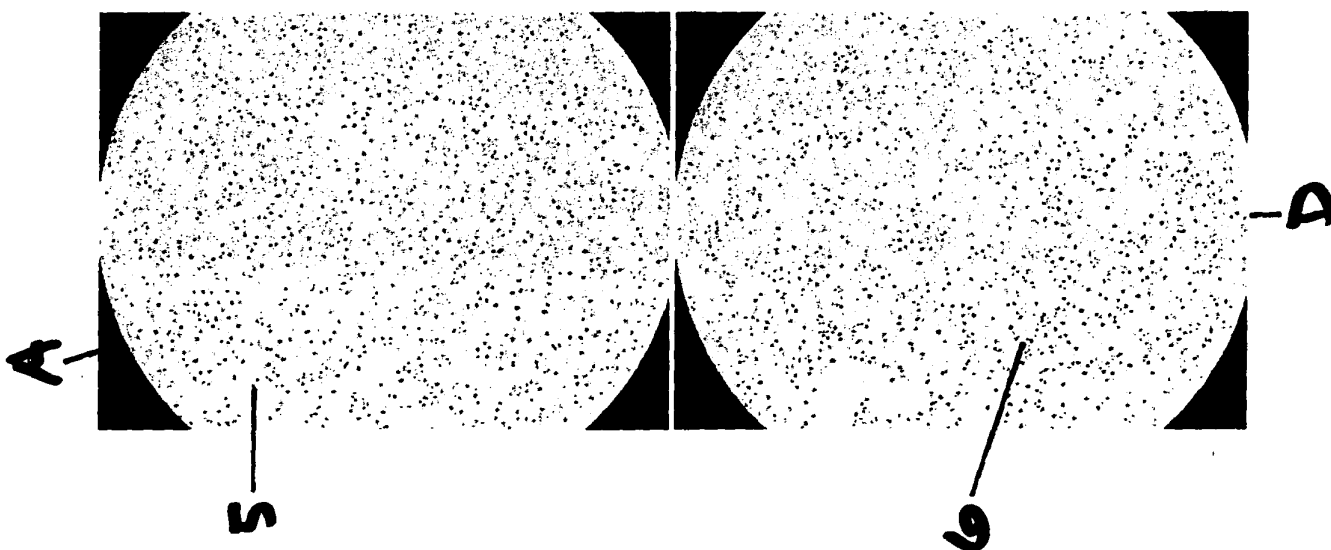
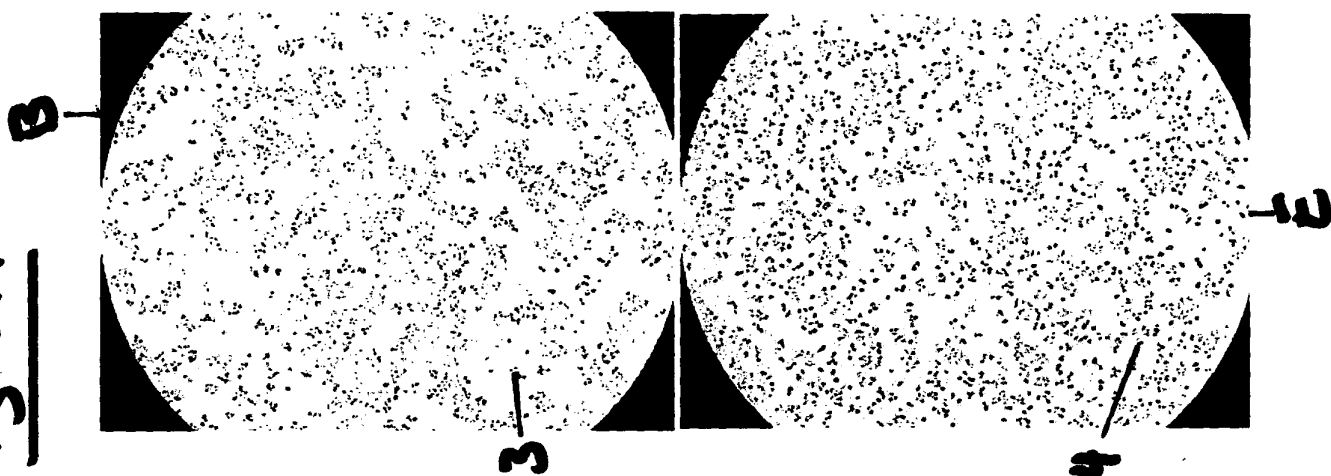
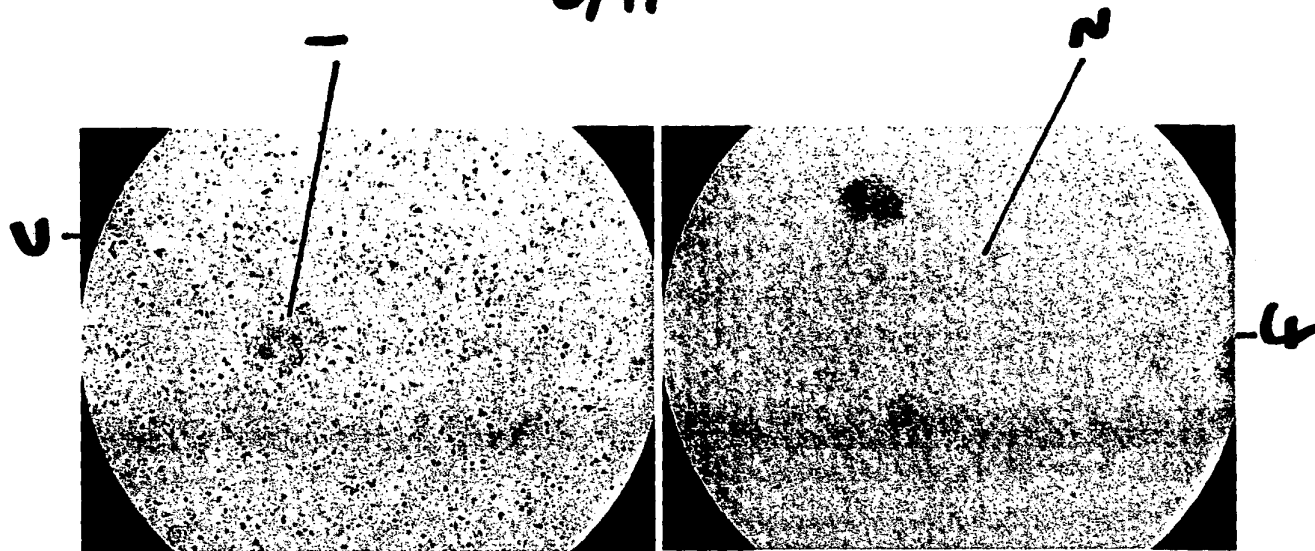


Fig. 6A

7/11

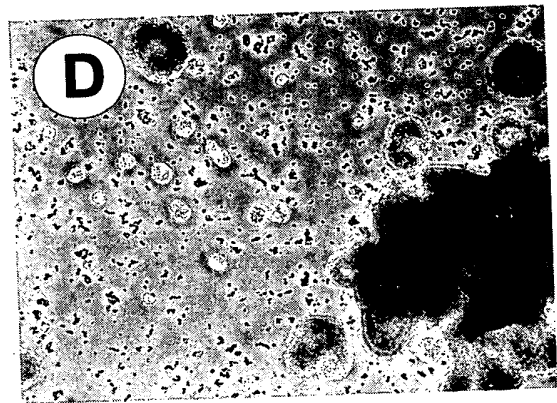
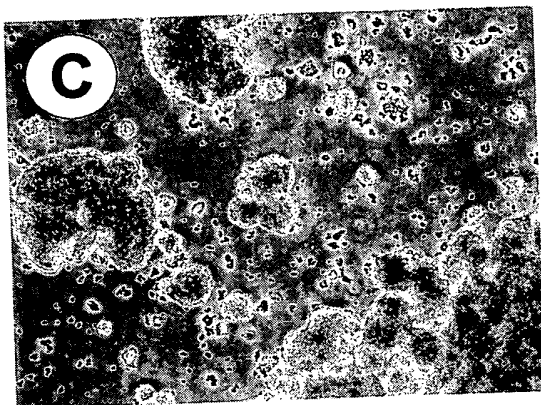
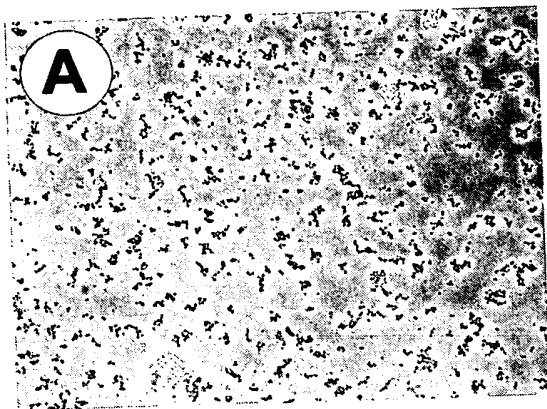


Fig. 6B

8/11

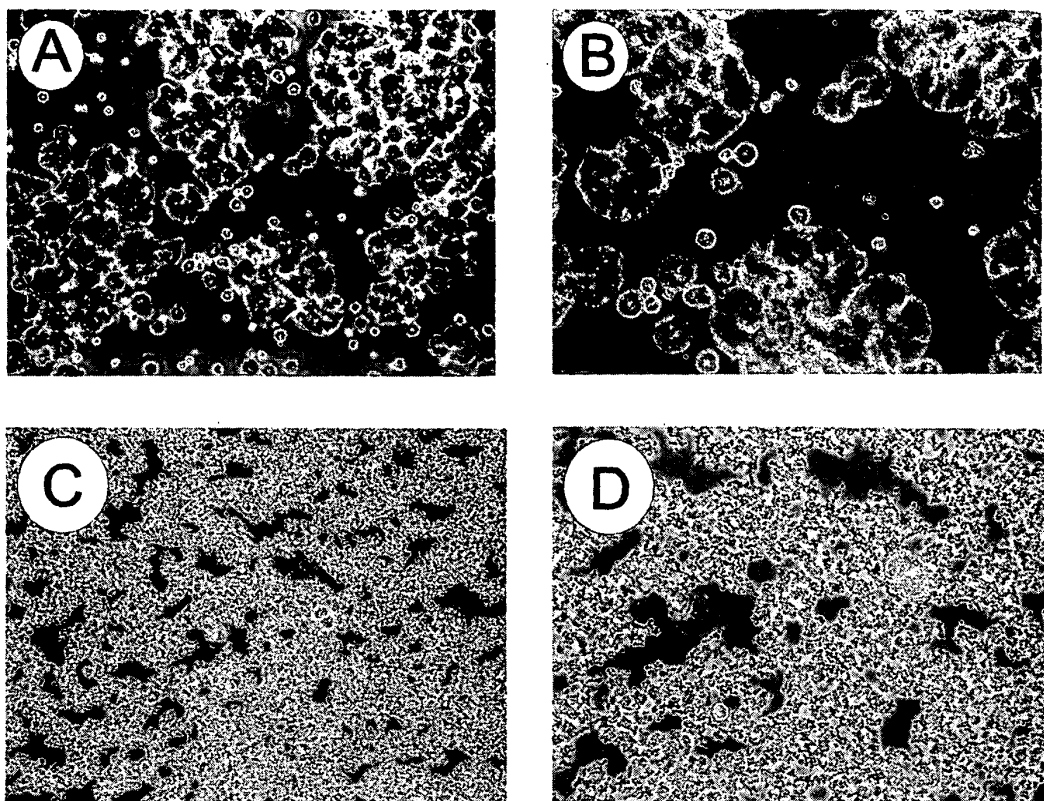


Fig. 6C



9/11

Fig. 7

	LPS n=54	Starting Glucan n=55	Sonicated Glucan n=56	Media n=50
Average # bio- particles per cell	1.75	2.92	3.00	3.04
# Cells ingesting bio-particles	24	23	31	15
# Cells without bio- particles	30	32	25	35
% Phagocytosis	44.44%	41.82%	55.36%	30.00%

**Fig. 8**

	LPS (50 µg/ml)	Glucan Globules (100 µg/ml)	Sonicated Glucan (100 µg/ml)	Media
TNF-α (pg/ml)	573	153	144	0
NO (µM)	>1000	275	600	0

10/11

11/11

Fig. 9

Reciprocal IgG Antibody Titers

Day Post-Primary Immunization	Saline + FITC- BSA	MG:FITC-BSA	Fold Increase
Primary			
6	-	-	-
12	111	776	6.9X
24	220	928	4.2X
Secondary			
77	105	170	1.6X
84	14,708	22,735	1.6X